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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,161	09/30/2003	Eric Joel Benjamin	AM101003	5560
25291	7590	07/27/2007		
WYETH PATENT LAW GROUP 5 GIRALDA FARMS MADISON, NJ 07940			EXAMINER HUYNH, CARLIC K	
			ART UNIT	PAPER NUMBER
			1617	
			MAIL DATE	DELIVERY MODE
			07/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/675,161

Applicant(s)

BENJAMIN ET AL.

Examiner

Carlic K. Huynh

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 and 35-38 is/are pending in the application.
- 4a) Of the above claim(s) 15 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 16, 17 and 35-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Receipt of applicants' amendments and remarks filed on May 1, 2007 is acknowledged.

Status of the Claims

1. Claims 1-17 and 35-38 are pending in the application, with claims 18-34 having been cancelled in response to the restriction requirement submitted on October 20, 2006.

Accordingly, claims 1-17 and 35-38 are being examined on the merits herein.

Election/Restrictions

2. Applicant's election without traverse of the claims of Group I, namely claims 1-17 and new claims 35-38, in the reply filed on November 2, 2006 is acknowledged.

Claims 18-34 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on November 2, 2006.

Additionally, Applicant's election without traverse of the species of claim 17, 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino)-3-cyano-7-ethoxy-quinolin-6-yl]-amide, in the reply filed on November 2, 2006 is acknowledged.

Claim 15 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. The elected species is the compound of the formula in claim 15, where X is a phenyl substituted with 2 halogens however, the compound in claim 15 is where X is a phenyl substituted with a halogen.

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Thus claim 15 has been withdrawn. Election was made without traverse in the reply filed on November 2, 2006.

Accordingly, claims 1-14, 16-17, and 35-38 are being examined on the merits herein.

The election/restriction requirement is deemed proper and is made FINAL.

Claims 1-14, 16-17, and 35-38 are directed to a stabilized pharmaceutical composition and thus intended use is not given any patentable weight.

Response to Arguments

Applicants' have amended claim 17.

1. Applicants have deleted the duplicate label of the "y" axis for figure 1 in an "Amendment-After Non-Final Rejection" filed on May 1, 2007. Accordingly, in light of the amendments, the objection to the drawings has been withdrawn.
2. Applicants have amended claim 17 in an "Amendment-After Non-Final Rejection" filed on May 1, 2007 to correct a typographical error. Accordingly, in light of the amendments, the objection to claim 17 for typographical errors has been withdrawn.
3. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 102" to claim 15 has been fully considered and are persuasive. Furthermore, claim 15 has been withdrawn. Rabindran et al. (US 6,617,333) does not teach a stabilized composition of EKB-569. Thus, the Rejections under 35 U.S.C. § 102 to claim 15 have been withdrawn in light of the arguments.

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4. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 103" to claims 1-6, 10-11, and 35-38 has been fully considered and are persuasive in part. The reference Wissner et al. (US 6,002,008) does teach a stabilized composition of 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl)]amide. However, Cotton et al. (International Journal of Pharmaceutics 1994, 109, 237-249) does teach a method to stabilize compounds with free acid. It is noted that 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl)]amide contains a free acid component, 4-dimethylamino-but-2-enoic acid. Thus, the Rejections under 35 U.S.C. § 103 to claims 1-6, 10-11, and 35-38 have been withdrawn in light of the arguments.

5. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 103" to claims 7-9 and 13-14 has been fully considered and are persuasive. The reference Makino et al. (US 6,879,708) does teach benzimidazoles and not the compounds of the invention. Thus, the Rejections under 35 U.S.C. § 103 to claims 7-9 and 13-14 have been withdrawn in light of the arguments.

6. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 103" to claim 12 has been fully considered and are persuasive in part. The reference Curatolo et al. (US 2003/0198674) does teach quinoline derivatives and not the compounds of the invention. Thus, the Rejections under 35 U.S.C. § 103 to claim 12 have been withdrawn in light of the arguments.

7. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 112, 2nd paragraph" to claims 16-17 and 38

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has been fully considered and are persuasive. N,N-dimethylaminomethyl does contain three methyl groups and thus contain 3 carbon atoms. The N,N-dimethylamino-but-2-enoic acid does contain a total of 6 carbon atoms and thus fall within the range of 3-12 carbon atoms. Thus, the Rejections under 35 U.S.C. § 112, 2nd paragraph to claims 16-17 and 38 for being indefinite have been withdrawn in light of the arguments.

8. Applicant's arguments, see "Amendment-After Non-Final Rejection" filed on May 1, 2007, with respect to "Rejections under 35 U.S.C. § 112, 2nd paragraph" to claim 17 has been fully considered and are persuasive. Claim 17 has been amended to correct the indefiniteness rejection for reciting "the compound comprises" by reciting "the compound is". Thus, the Rejections under 35 U.S.C. § 112, 2nd paragraph to claim 17 for being indefinite have been withdrawn in light of the amendments.

9. Applicant's arguments with respect to claims 1-17 and 35-38 have been considered but are moot in view of the new ground(s) of rejection. The following new ground(s) of rejection to claims 1-14, 16-17, and 35-38 are used herewith.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1-14, 16-17, and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rabindran et al. (US 6,617,333).

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Rabindran et al. teaches an EKB-569 composition (abstract). The tablet formulations may be made by wet granulation or dry granulation and utilize pharmaceutically acceptable diluents, binding agents, lubricants, disintegrants, surface modifying agents, and suspending or stabilizing agents including calcium carbonate (column 7, lines 17-20 and 26). It is noted that the chemical formula for EKB-569 is known in the art as 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl)]amide (column 1, lines 13-15). Oral formulations may utilize standard delay or time release formulations to alter the absorption of EKB-569 (column 7, lines 36-37).

Regarding the amounts of the pH of the composition, as recited in claims 4-6 and 37, it is noted that Rabindran et al. teach various pharmaceutically acceptable excipients including calcium carbonate (column 7, line 26). Since Rabindran et al. teach calcium carbonate, it would be obvious that the EKB-569 composition may be basic and thus have a pH of at least 8, which closely meets the amounts of pH set forth in claims 4-6 and 37. It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of calcium carbonate provided in a composition, according to the guidance set forth in Rabindran et al., to provide a composition having desired pH. It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding the amounts of the weights of the basic excipients in the pharmaceutical composition, as recited in claims 7-9, it is noted that Rabindran et al. teach providing calcium carbonate (column 7, line 26). Since Rabindran et al. teach calcium carbonate, it would be

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obvious that the EKB-569 composition contain calcium carbonate that is about 0.1% to about 50% by weight of the pharmaceutical composition, which closely meets the weights of the basic excipients in the pharmaceutical composition set forth in claims 7-9. It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of calcium carbonate provided in a composition, according to the guidance set forth in Rabindran et al., to provide a composition having desired weight of the basic excipient in the pharmaceutical composition. It is noted that “[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding immediate release and sustained release pharmaceutical compositions as recited in claims 12 and 13, respectively, it is noted that Rabindran et al. teach oral formulations may utilize standard delay or time release formulations to alter the absorption of EKB-569 (column 7, lines 36-37). Since Rabindran et al. teach oral formulations may utilize standard delay or time release formulations to alter the absorption of EKB-569, it would be obvious that the EKB-569 pharmaceutical compositions of Rabindran et al. may be an immediate release form or a sustained release form.

Regarding enteric coated pharmaceutical compositions as recited in claim 14, it is noted that Rabindran et al. teach various pharmaceutically acceptable ingredients (column 7, lines 19-21). Since Rabindran et al. teach various pharmaceutically acceptable ingredients, it would be obvious that the EKB-569 pharmaceutical compositions of Rabindran et al. may be enteric coated.

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11. Claims 1-14, 16-17, and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masferrer (US 2004/0127470).

Masferrer teaches EKB-569 (abstract and page 62, table 10). It is noted that the chemical formula for EKB-569 is known in the art as 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl)]amide. The composition of EKB-569 is made into tablets and can contain calcium carbonate (pages 82-83, paragraph [1209]). Masferrer also teaches art acceptable methods of drug formulation (page 82, paragraph [1206]).

Masferrer further teaches that the pharmaceutical composition is can contain a controlled-release formulation, which is provided by hydroxypropylmethyl cellulose, and additionally be prepared with enteric coatings (pages 82-83, paragraph [1209]). The composition can be combined with one or more adjuvants (pages 82-83, paragraph [1209]).

Regarding the amounts of the pH of the composition, as recited in claims 4-6 and 37, it is noted that Masferrer teaches calcium carbonate (pages 82-83, paragraph [1209]). Since Masferrer teaches calcium carbonate, it would be obvious that the EKB-569 composition may be basic and thus have a pH of at least 8, which closely meets the amounts of pH set forth in claims 4-6 and 37. It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of calcium carbonate provided in a composition, according to the guidance set forth in Masferrer, to provide a composition having desired pH. It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding the amounts of the weights of the basic excipients in the pharmaceutical composition, as recited in claims 7-9, it is noted that Masferrer teaches calcium carbonate (pages 82-83, paragraph [1209]). Since Masferrer teaches calcium carbonate, it would be obvious that the EKB-569 composition contain calcium carbonate that is about 0.1% to about 50% by weight of the pharmaceutical composition, which closely meets the weights of the basic excipients in the pharmaceutical composition set forth in claims 7-9. It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of calcium carbonate provided in a composition, according to the guidance set forth in Masferrer, to provide a composition having desired weight of the basic excipient in the pharmaceutical composition. It is noted that “[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding immediate release pharmaceutical compositions as recited in claims 12, it is noted that Masferrer teaches the pharmaceutical composition is can contain a controlled-release formulation (pages 82-83, paragraph [1209]). Since Masferrer teaches oral formulations can contain a controlled-release formulation of EKB-569, it would be obvious that the EKB-569 pharmaceutical compositions of Masferrer can be an immediate release form.

Regarding wet or dry granulation as recited in claims 35-38, claims 35-38 are still rendered obvious over the teachings of Masferrer as product by process claims. Masferrer teaches tablets and art acceptable methods of drug formulation (pages 82-83, paragraphs [1206] and [1209]). It is well known that there are a number of processes that will yield tablets including dry granulation and wet granulation. Thus, it would be obvious that tablets are made

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by processes such as dry granulation or wet granulation. It is noted that “[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.” *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

12. Claims 1-14, 16-17, and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wissner et al. (US 6,002,008) in view of Cotton et al. (International Journal of Pharmaceutics 1994, 109, 237-249).

Wissner et al. teach a compound of formula (I), namely 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino)-3-cyano-7-methoxy-quinolin-6-yl]amide (column 90, lines 24-26).

Wissner et al. also teach the compounds of the claimed invention may have solid carriers or excipients, including starch, lactose, dicalcium phosphate, microcrystalline cellulose, sucrose, and kaolin (column 41, lines 46-48).

Furthermore, Wissner et al. teach a solid dosage form (column 41, lines 57-60) and tablets (column 41, lines 10-15). The compounds of the invention may be administered in a sustained release form (column 41, line 33).

Wissner et al. teach 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino)-3-cyano-7-methoxy-quinolin-6-yl]amide, which is a structural homolog of the instantly claimed compound 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl]amide, i.e., they differ only by a CH₂ group.

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Thus, one having ordinary skill in the art would have been motivated to prepare the instantly claimed compound because such structurally homologous compounds are expected to possess similar properties. It has been held that compounds that are structurally homologous to prior art compounds are *prima facie* obvious, absent a showing of unexpected results. *In re Hass*, 60 USPQ 544 (CCPA 1944); *In re Henze*, 85 USPQ 261 (CCPA 1950).

Wissner et al. do not teach basic excipients in the pharmaceutical composition and concentrations of basic excipients that are sufficient to bring the pH of the composition to at least 8.

Cotton et al. teach that basic excipients, e.g. glycine and sodium carbonate, may be used to stabilize and prevent the degradation of L-649,923, which is caused by the cyclization of its γ -hydroxy free acid. Cotton et al. also teach that an equivalent to 1.0 molar concentration of glycine brings the pH of the L-649,923 composition to 7.3 and that an equivalent to 0.5 molar concentration of sodium carbonate brings the pH of the L-649,923 composition to 9.5 (Table 6).

Regarding "basic excipient" as recited in claims 1-6, 10-11, 16, and 35-38, it is noted the basic excipient is used to stabilize and prevent the degradation of the pharmaceutical composition caused by cyclization of the dimethylamino-but-2-enoic acid side chain (page 14, lines 1-2 of the specification).

Accordingly, absence the showing of unexpected results, it would have been obvious to a person of skill in the art at the time of the invention to employ the pharmaceutical composition of Wissner et al. to contain a basic excipient because the basic excipient glycine or sodium carbonate of Cotton et al. can be used to stabilize and prevent the degradation of acidic groups of compositions and to bring the pH of those compositions to at least 8. Since Cotton et al. teaches

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that glycine or sodium carbonate can prevent the degradation of L-649,923 caused by the cyclization of its γ -hydroxy free acid, combining Cotton's glycine or sodium carbonate and Wissner's compositions would have reasonably been expected to be effective to stabilize and prevent the degradation of the methylamino-but-2-enoic acid side chain caused by its cyclization and to bring the pH of the composition to at least 8.

The motivation to combine the pharmaceutical composition of Wissner et al. to the basic excipient of Cotton et al. is that the compounds of Cotton et al. contain glycine or sodium carbonate and that such compositions can be used to stabilize and prevent the degradation of acidic groups of compositions and to bring the pH of those compositions to at least 8.

It is noted that "It is obvious to combine individual compositions taught to have the same utility to form a new composition for the very same purpose" and "It is obvious to combine two compositions taught by the prior art to be useful for the same purpose to form a third composition that is to be used for the very same purpose". *In re Kerkhoven*, 626 F.2d 846, 205 U.S.P.Q. 1069 (C.C.P.A. 1980).

Regarding the amounts of the pH of the composition, as recited in claims 4-6 and 37, it is noted that Cotton et al. teach providing glycine and sodium carbonate will yield a composition pH of 7.3 and 9.5, respectively, which closely meets the amounts of pH set forth in claims 4-6 and 37 (Table 6). It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of glycine or sodium carbonate provided in a composition, according to the guidance set forth in Cotton et al., to provide a composition having desired pH. It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable

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ranges by routine experimentation.” *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding the amounts of the weights of the basic excipients in the pharmaceutical composition, as recited in claims 7-9, it is noted that Cotton et al. teaches an equivalent to 1.0 molar concentration of glycine and an equivalent to 0.5 molar concentration of sodium carbonate, which closely meets the weights of the basic excipients in the pharmaceutical composition set forth in claims 7-9 (Table 6). It is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of calcium carbonate provided in a composition, according to the guidance set forth in Cotton et al., to provide a composition having desired weight of the basic excipient in the pharmaceutical composition. It is noted that “[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller*, 220 F.2d 454, 456, 105 USPQ 223, 235 (CCPA 1955).

Regarding immediate release and enteric coated pharmaceutical compositions as recited in claims 12 and 14, respectively, it is noted that Wissner et al. teach formulations may be formulated neat or combined with one or more pharmaceutically acceptable carriers (column 41, lines 10-12). Since Wissner et al. teach formulations may be formulated neat or combined with one or more pharmaceutically acceptable carriers, it would be obvious that the 4-dimethylamino-but-2-enoic acid [4-(3-chloro-4-fluoro-phenylamino-3-cyano-7-ethoxy-quinolin-6-yl)]amide pharmaceutical compositions of Wissner et al. may be an immediate release form or an enteric coated pharmaceutical composition.

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Regarding wet or dry granulation as recited in claims 35-38, claims 35-38 are still rendered obvious over the teachings of Wissner et al. as product by process claims. Wissner et al. teaches oral formulations and tablets (column 41, lines 10-15). It is well known that there are a number of processes that will yield tablets including dry granulation and wet granulation. Thus, it would be obvious that tablets are made by processes such as dry granulation or wet granulation. It is noted that “[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.” *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Conclusion

13. No claims are allowable.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlic K. Huynh whose telephone number is 571-272-5574. The examiner can normally be reached on Monday to Friday, 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ckh


SHENGJUN WANG
PRIMARY EXAMINER